Airborne Lidar Measurements of Springtime Distributions of Herring in Prince William Sound and Kodiak Island





Main concentration was in South Arm of Uganik Bay.

Some schools, as well as birds and sea lions, were

seen outside of South Arm in clearer water.

These were not seen by the lidar

Some schools were seen in Ugak Bay.

Kodiak March 2002

School group near East Point

Outside South Arm



Layer in the same area that night

Outside South Arm

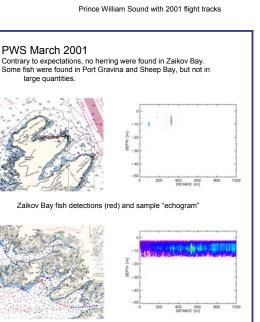


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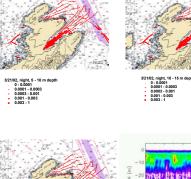
A lot of fish were seen in Zaikov Bay. Spawning fish were seen on the north side of Port Gravina Daytime surface schools were seen on the east side of Green Island.



Port Gravina daytime fish detections (red) and sample echogram

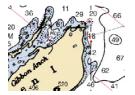
Port Gravina nighttime fish detections (red) and sample echogram

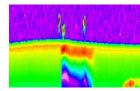
Surface herring schools near Green Island - Echogram shows birds over dense fish.





Zaikov Bay Echogra





Lidar return in Uganik Bay - The water in South Arm is highly absorbing.